

Appendix C: Year Two Teacher Survey Data Tables

Each district was asked to enter Teacher Information data into our data management tool, the CFF Dashboard. This tool enables both statewide and district level tracking of the course of the survey. More importantly, when districts add teachers to the CFF Dashboard, they are providing information on who is a CFF teacher (i.e. those teachers impacted by the CFF program).

There were 6810 teachers in the CFF Dashboard during the pre and post windows. The treatment period in which CFF had time to take effect between the two survey windows was approximately six months. During the ‘pre’ window, a total of 6460 teachers took the survey, or 94.86% of CFF teachers. During the ‘post’ window, a total of 5676 teachers took the survey, or 83.33% of CFF teachers.

Percent of Class Time on Certain Activities

Q1 Which of the following best describes the way your classroom is arranged?						
	Pre	Post	Change	Chi Square Value	DF	Significance
Desks in rows	68.00%	62.00%	-7.00%	67.51	4.00	p<.001
Small clusters of student desks	13.00%	17.00%	4.00%			
Student desks in circles or semi-circles	6.00%	7.00%	1.00%			
Desks along classroom walls	2.00%	3.00%	1.00%			
Other	10.00%	11.00%	1.00%			
Total	100.00%	100.00%				

Q2_A_1 Percent class time on: Whole group lecture/instruction						
	Pre	Post	Change	Chi Square Value	DF	Significance
None	1.00%	1.00%	0.00%	64.52	4.00	p<.001
1% to 15%	22.00%	27.00%	5.00%			
16% to 30%	33.00%	35.00%	2.00%			
31% to 50%	29.00%	26.00%	-3.00%			
More than 50%	14.00%	11.00%	-3.00%			
Total	100.00%	100.00%				

Q2_A_2 Percent class time on: Leading a whole class discussion						
	Pre	Post	Change	Chi Square Value	DF	Significance
None	2.00%	1.00%	-1.00%	21.60	4.00	p<.001
1% to 15%	30.00%	31.00%	1.00%			
16% to 30%	38.00%	39.00%	1.00%			
31% to 50%	22.00%	22.00%	0.00%			
More than 50%	8.00%	7.00%	-1.00%			
Total	100.00%	100.00%				

Q2_A_3 Percent class time on: Working with small groups of students						
	Pre	Post	Change	Chi Square Value	DF	Significance
None	1.00%	1.00%	0.00%	31.86	4.00	p<.001
1% to 15%	36.00%	31.00%	-4.00%			
16% to 30%	41.00%	43.00%	2.00%			
31% to 50%	17.00%	20.00%	3.00%			
More than 50%	5.00%	5.00%	0.00%			
Total	100.00%	100.00%				

Q2_A_4 Percent class time on: Working with individual students						
	Pre	Post	Change	Chi Square Value	DF	Significance
None	1.00%	1.00%	0.00%	33.78	4.00	p<.001
1% to 15%	59.00%	54.00%	-5.00%			
16% to 30%	27.00%	30.00%	3.00%			
31% to 50%	9.00%	11.00%	2.00%			
More than 50%	3.00%	4.00%	0.00%			
Total	100.00%	100.00%				

Q2_A_5 Percent class time on: Walking, observing, and interacting with students						
	Pre	Post	Change	Chi Square Value	DF	Significance
None	1.00%	0.00%	0.00%	20.96	4.00	p<.001
1% to 15%	20.00%	18.00%	-2.00%			
16% to 30%	35.00%	36.00%	1.00%			
31% to 50%	22.00%	24.00%	2.00%			
More than 50%	22.00%	21.00%	-1.00%			
Total	100.00%	100.00%				

Q2_A_6 Percent class time on: Working at your desk, or working on other work not involving students						
	Pre	Post	Change	Chi Square Value	DF	Significance
None	46.00%	43.00%	-3.00%	26.13	4.00	p<.001
1% to 15%	48.00%	50.00%	2.00%			
16% to 30%	4.00%	5.00%	1.00%			
31% to 50%	1.00%	1.00%	0.00%			
More than 50%	1.00%	1.00%	0.00%			
Total	100.00%	100.00%				

Teachers Perceptions of Teaching and Learning

Q3 How would you describe the content your class is designed to convey?						
	Pre	Post	Change	Chi Square Value	DF	Significance
Almost all content knowledge	5.00%	4.00%	-1.00%	37.71	4.00	p<.001
More content knowledge than higher order skills	25.00%	22.00%	-2.00%			
Half content knowledge and half higher order skills	54.00%	55.00%	1.00%			
More higher order skills than content knowledge	14.00%	17.00%	3.00%			
Almost all higher order skills	2.00%	2.00%	0.00%			
Total	100.00%	100.00%				

Q4 How would you describe your teaching style?						
	Pre	Post	Change	Chi Square Value	DF	Significance
Didactic	6.00%	6.00%	-1.00%	13.79	4.00	0.01
More didactic than constructivist	24.00%	22.00%	-2.00%			
An even balance of didactic and constructivist	49.00%	50.00%	1.00%			
More constructivist than didactic	15.00%	17.00%	2.00%			
Constructivist	6.00%	6.00%	0.00%			
Total	100.00%	100.00%				

Q5 How would you describe the work that students do?						
	Pre	Post	Change	Chi Square Value	DF	Significance
Exercises and assignments submitted to teacher only	18.00%	15.00%	-4.00%	70.26	4.00	p<.001
Blend, but more like _a_ than _e_	44.00%	41.00%	-3.00%			
A balance between _a_ and _e_	27.00%	31.00%	4.00%			
Blend, but more like _e_ than _a_	9.00%	11.00%	2.00%			
Projects and products that resemble what people do outside of school	2.00%	3.00%	0.00%			
Total	100.00%	100.00%				

Q6 What percentage of your class time would you say is directed to the development of "21st Century skills"?						
	Pre	Post	Change	Chi Square Value	DF	Significance
None (0%)	1.00%	0.00%	-1.00%	77.47	4.00	p<.001
1% to 25%	31.00%	25.00%	-5.00%			
25% to 50%	38.00%	43.00%	5.00%			
50% to 75%	23.00%	25.00%	2.00%			
More than 75%	7.00%	6.00%	-1.00%			
Total	100.00%	100.00%				

Q7 During a typical class, what percentage of your students would you say are "actively engaged" in the class?						
	Pre	Post	Change	Chi Square Value	DF	Significance
0 to 20%	1.00%	1.00%	0.00%	10.19	4.00	0.04
21% to 40%	8.00%	7.00%	-1.00%			
41% to 60%	20.00%	20.00%	0.00%			
60% to 80%	40.00%	42.00%	2.00%			
More than 80%	31.00%	30.00%	-1.00%			
Total	100.00%	100.00%				

Value of the Use of Particular Technologies

Q8_A_1 Value of: Educational management software (attendance, grades, lesson plans, etc.)						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	2.00%	1.00%	-1.00%	55.60	4.00	p<.001
Not Valuable	1.00%	0.00%	0.00%			
Little value	4.00%	2.00%	-1.00%			
Valuable	30.00%	29.00%	-2.00%			
Very Valuable	63.00%	67.00%	4.00%			
Total	100.00%	100.00%				

Q8_A_2 Value of: Drill & practice software, Integrated learning systems and/or educational games						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	39.00%	28.00%	-11.00%	162.66	4.00	p<.001
Not Valuable	4.00%	4.00%	0.00%			
Little value	18.00%	22.00%	4.00%			
Valuable	32.00%	38.00%	6.00%			
Very Valuable	8.00%	9.00%	1.00%			
Total	100.00%	100.00%				

Q8_A_3 Value of: Word processing						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	8.00%	4.00%	-4.00%	103.49	4.00	p<.001
Not Valuable	1.00%	1.00%	0.00%			
Little value	9.00%	8.00%	-1.00%			
Valuable	36.00%	39.00%	3.00%			
Very Valuable	46.00%	48.00%	2.00%			
Total	100.00%	100.00%				

Q8_A_4 Value of: Data management, graphing, or analysis software						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	29.00%	23.00%	-6.00%	70.93	4.00	p<.001
Not Valuable	4.00%	4.00%	0.00%			
Little value	18.00%	22.00%	3.00%			
Valuable	33.00%	36.00%	4.00%			
Very Valuable	15.00%	15.00%	-1.00%			
Total	100.00%	100.00%				

Q8_A_5 Value of: Database software						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	60.00%	52.00%	-8.00%	82.24	4.00	p<.001
Not Valuable	6.00%	8.00%	2.00%			
Little value	17.00%	21.00%	4.00%			
Valuable	13.00%	15.00%	3.00%			
Very Valuable	4.00%	4.00%	0.00%			
Total	100.00%	100.00%				

Q8_A_6 Value of: Presentation Software						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	17.00%	7.00%	-10.00%	338.00	4.00	p<.001
Not Valuable	2.00%	2.00%	0.00%			
Little value	12.00%	10.00%	-2.00%			
Valuable	35.00%	39.00%	4.00%			
Very Valuable	34.00%	42.00%	8.00%			
Total	100.00%	100.00%				

Q8_A_7 Value of: Email						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	6.00%	4.00%	-2.00%	53.72	4.00	p<.001
Not Valuable	2.00%	2.00%	-1.00%			
Little value	8.00%	7.00%	-1.00%			
Valuable	28.00%	27.00%	-1.00%			
Very Valuable	54.00%	60.00%	5.00%			
Total	100.00%	100.00%				

Q8_A_8 Value of: Other communication tools						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	58.00%	40.00%	-18.00%	424.81	4.00	p<.001
Not Valuable	6.00%	7.00%	1.00%			
Little value	15.00%	19.00%	5.00%			
Valuable	15.00%	24.00%	9.00%			
Very Valuable	6.00%	9.00%	3.00%			
Total	100.00%	100.00%				

Q8_A_9 Value of: Desktop Publishing Software						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	53.00%	42.00%	-12.00%	180.52	4.00	p<.001
Not Valuable	6.00%	6.00%	0.00%			
Little value	15.00%	19.00%	5.00%			
Valuable	18.00%	24.00%	5.00%			
Very Valuable	8.00%	9.00%	1.00%			
Total	100.00%	100.00%				

Q8_A_10 Value of: Web publishing software						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	67.00%	57.00%	-10.00%	129.16	4.00	p<.001
Not Valuable	5.00%	7.00%	2.00%			
Little value	13.00%	17.00%	5.00%			
Valuable	11.00%	14.00%	3.00%			
Very Valuable	4.00%	5.00%	1.00%			
Total	100.00%	100.00%				

Q8_A_11 Value of: Internet for research						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	6.00%	3.00%	-4.00%	115.69	4.00	p<.001
Not Valuable	2.00%	1.00%	0.00%			
Little value	9.00%	7.00%	-2.00%			
Valuable	30.00%	30.00%	0.00%			
Very Valuable	52.00%	58.00%	6.00%			
Total	100.00%	100.00%				

Q8_A_12 Value of: Multimedia Reference Tools						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	26.00%	22.00%	-5.00%	43.16	4.00	p<.001
Not Valuable	4.00%	5.00%	1.00%			
Little value	17.00%	18.00%	1.00%			
Valuable	34.00%	36.00%	3.00%			
Very Valuable	19.00%	19.00%	0.00%			
Total	100.00%	100.00%				

Q8_A_13 Value of: Simulations / Modeling Software						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	49.00%	40.00%	-10.00%	120.78	4.00	p<.001
Not Valuable	5.00%	6.00%	1.00%			
Little value	13.00%	17.00%	4.00%			
Valuable	22.00%	26.00%	4.00%			
Very Valuable	11.00%	12.00%	1.00%			
Total	100.00%	100.00%				

Q8_A_14 Value of: Video, graphics, or sound editing or production software						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	55.00%	38.00%	-17.00%	377.66	4.00	p<.001
Not Valuable	5.00%	6.00%	1.00%			
Little value	12.00%	17.00%	5.00%			
Valuable	18.00%	26.00%	8.00%			
Very Valuable	10.00%	14.00%	4.00%			
Total	102.00%	102.00%				

Q8_A_15 Value of: Probeware						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	65.00%	58.00%	-7.00%	102.66	4.00	p<.001
Not Valuable	5.00%	7.00%	2.00%			
Little value	10.00%	14.00%	4.00%			
Valuable	13.00%	13.00%	1.00%			
Very Valuable	7.00%	8.00%	0.00%			
Total	100.00%	100.00%				

Q8_A_16 Value of: Web based digital curriculum or curriculum resources						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	39.00%	29.00%	-10.00%	141.55	4.00	p<.001
Not Valuable	5.00%	6.00%	1.00%			
Little value	16.00%	19.00%	3.00%			
Valuable	28.00%	33.00%	5.00%			
Very Valuable	11.00%	13.00%	2.00%			
Total	100.00%	100.00%				

Q8_A_17 Value of: Other Web-based learning activities						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	29.00%	18.00%	-11.00%	191.76	4.00	p<.001
Not Valuable	5.00%	5.00%	0.00%			
Little value	17.00%	19.00%	2.00%			
Valuable	35.00%	40.00%	5.00%			
Very Valuable	13.00%	17.00%	3.00%			
Total	100.00%	100.00%				

Q8_A_18 Overall, how valuable are the technologies currently in your classroom?						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	3.00%	1.00%	-2.00%	408.98	4.00	p<.001
Not Valuable	4.00%	2.00%	-3.00%			
Little value	18.00%	10.00%	-9.00%			
Valuable	47.00%	50.00%	3.00%			
Very Valuable	28.00%	38.00%	10.00%			
Total	100.00%	100.00%				

Value of certain Teaching Strategies

Q9_A_1 Value of: Teacher lecture or demonstration						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	1.00%	1.00%	0.00%	72.12	4.00	p<.001
Not Valuable	1.00%	1.00%	0.00%			
Little value	7.00%	8.00%	0.00%			
Valuable	59.00%	66.00%	6.00%			
Very Valuable	32.00%	25.00%	-7.00%			
Total	100.00%	100.00%				

Q9_A_2 Value of: Teacher-led discussion aimed at factual, knowledge-level content.						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	1.00%	1.00%	0.00%	65.20	4.00	p<.001
Not Valuable	1.00%	1.00%	0.00%			
Little value	10.00%	12.00%	1.00%			
Valuable	60.00%	65.00%	5.00%			
Very Valuable	28.00%	22.00%	-6.00%			
Total	100.00%	100.00%				

Q9_A_3 Value of: Teacher-led discussion aimed at high-level outcomes						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	1.00%	1.00%	-1.00%	53.03	4.00	p<.001
Not Valuable	0.00%	0.00%	0.00%			
Little value	5.00%	3.00%	-1.00%			
Valuable	47.00%	53.00%	6.00%			
Very Valuable	46.00%	43.00%	-4.00%			
Total	100.00%	100.00%				

Q9_A_4 Value of: Project based learning						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	6.00%	5.00%	-2.00%	56.41	4.00	p<.001
Not Valuable	2.00%	1.00%	-1.00%			
Little value	13.00%	11.00%	-2.00%			
Valuable	50.00%	50.00%	0.00%			
Very Valuable	29.00%	33.00%	4.00%			
Total	100.00%	100.00%				

Q9_A_5 Value of: Problem based learning						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	3.00%	3.00%	0.00%	7.15	4.00	0.13
Not Valuable	1.00%	1.00%	0.00%			
Little value	7.00%	7.00%	-1.00%			
Valuable	53.00%	54.00%	1.00%			
Very Valuable	35.00%	35.00%	1.00%			
Total	100.00%	100.00%				

Q9_A_6 Value of: Authentic learning (learning tied to the world outside the classroom)						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	4.00%	3.00%	-1.00%	33.68	4.00	p<.001
Not Valuable	1.00%	1.00%	0.00%			
Little value	8.00%	7.00%	-2.00%			
Valuable	45.00%	49.00%	3.00%			
Very Valuable	41.00%	41.00%	0.00%			
Total	100.00%	100.00%				

Q9_A_7 Value of: Multi-modal teaching (ie, visual, auditory, kinesthetic)						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	4.00%	3.00%	-1.00%	30.37	4.00	p<.001
Not Valuable	1.00%	1.00%	-1.00%			
Little value	8.00%	7.00%	-1.00%			
Valuable	44.00%	48.00%	3.00%			
Very Valuable	42.00%	41.00%	-1.00%			
Total	100.00%	100.00%				

Q9_A_8 Value of: Peer teaching or peer tutoring						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	8.00%	6.00%	-1.00%	30.91	4.00	p<.001
Not Valuable	3.00%	2.00%	-1.00%			
Little value	18.00%	16.00%	-2.00%			
Valuable	51.00%	52.00%	2.00%			
Very Valuable	21.00%	23.00%	2.00%			
Total	100.00%	100.00%				

Q9_A_9 Value of: Collaborative learning - informal (no formal roles assigned)						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	9.00%	6.00%	-3.00%	63.95	4.00	p<.001
Not Valuable	3.00%	3.00%	-1.00%			
Little value	18.00%	16.00%	-2.00%			
Valuable	49.00%	53.00%	3.00%			
Very Valuable	21.00%	23.00%	2.00%			
Total	100.00%	100.00%				

Q9_A_10 Value of: Collaborative learning with formal roles						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	17.00%	13.00%	-5.00%	74.85	4.00	p<.001
Not Valuable	3.00%	3.00%	-1.00%			
Little value	18.00%	17.00%	-1.00%			
Valuable	45.00%	50.00%	5.00%			
Very Valuable	16.00%	18.00%	2.00%			
Total	100.00%	100.00%				

Q9_A_11 Value of: WebQuests						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	46.00%	34.00%	-12.00%	191.57	4.00	p<.001
Not Valuable	4.00%	4.00%	0.00%			
Little value	16.00%	18.00%	2.00%			
Valuable	25.00%	33.00%	8.00%			
Very Valuable	8.00%	10.00%	2.00%			
Total	100.00%	100.00%				

Q9_A_12 Value of: Learning centers						
	Pre	Post	Change	Chi Square Value	DF	Significance
Don't Use	51.00%	42.00%	-8.00%	86.39	4.00	p<.001
Not Valuable	4.00%	4.00%	0.00%			
Little value	16.00%	19.00%	2.00%			
Valuable	23.00%	28.00%	5.00%			
Very Valuable	6.00%	7.00%	1.00%			
Total	100.00%	100.00%				

Time Students spend on certain Activities

Q10_A_1 Time Students spend: Listening to the teacher (in a large group setting)						
	Pre	Post	Change	Chi Square Value	DF	Significance
0% to 20%	12.00%	17.00%	5.00%	106.35	4	p<.001
21% to 40%	29.00%	31.00%	3.00%			
41% to 60%	33.00%	31.00%	2.00%			
61% to 80%	21.00%	17.00%	4.00%			
More than 80%	6.00%	4.00%	-2.00%			
Total	100.00%	100.00%				

Q10_A_2 Time Students spend: Listening to other students (in a large group setting)						
	Pre	Post	Change	Chi Square Value	DF	Significance
0% to 20%	38.00%	36.00%	-2.00%	21.44	4	p<.001
21% to 40%	37.00%	40.00%	3.00%			
41% to 60%	17.00%	18.00%	1.00%			
61% to 80%	7.00%	5.00%	-1.00%			
More than 80%	1.00%	1.00%	0.00%			
Total	100.00%	100.00%				

Q10_A_3 Time Students spend: Working independently						
	Pre	Post	Change	Chi Square Value	DF	Significance
0% to 20%	32.00%	31.00%	-1.00%	24.69	4	p<.001
21% to 40%	44.00%	46.00%	2.00%			
41% to 60%	17.00%	18.00%	1.00%			
61% to 80%	5.00%	5.00%	-1.00%			
More than 80%	2.00%	1.00%	-1.00%			
Total	100.00%	100.00%				

Q10_A_4 Time Students spend: Working in groups						
	Pre	Post	Change	Chi Square Value	DF	Significance
0% to 20%	25.00%	22.00%	-4.00%	32.61	4	p<.001
21% to 40%	44.00%	44.00%	0.00%			
41% to 60%	21.00%	24.00%	3.00%			
61% to 80%	8.00%	9.00%	1.00%			
More than 80%	2.00%	1.00%	0.00%			
Total	100.00%	100.00%				

Q10_A_5 Time Students spend: Talking with the teacher in 1-to-1 or small group conversations						
	Pre	Post	Change	Chi Square Value	DF	Significance
0% to 20%	55.00%	50.00%	-5.00%	43.45	4	p<.001
21% to 40%	30.00%	34.00%	4.00%			
41% to 60%	10.00%	11.00%	1.00%			
61% to 80%	4.00%	4.00%	0.00%			
More than 80%	2.00%	1.00%	-1.00%			
Total	100.00%	100.00%				

Q10_A_6 Time Students spend: Off task (not doing what the teacher intended)						
	Pre	Post	Change	Chi Square Value	DF	Significance
0% to 20%	84.00%	86.00%	2.00%	11.6	4.00	0.02
21% to 40%	12.00%	10.00%	-1.00%			
41% to 60%	3.00%	3.00%	0.00%			
61% to 80%	1.00%	1.00%	0.00%			
More than 80%	1.00%	0.00%	0.00%			
Total	100.00%	100.00%				

Q10_A_7 Time Students spend: Using computers						
	Pre	Post	Change	Chi Square Value	DF	Significance
0% to 20%	66.00%	39.00%	-27.00%	911.91	4.00	p<.001
21% to 40%	21.00%	33.00%	12.00%			
41% to 60%	8.00%	17.00%	9.00%			
61% to 80%	3.00%	8.00%	4.00%			
More than 80%	2.00%	4.00%	2.00%			
Total	100.00%	100.00%				

Percent of Students Overall Grade on various forms of Assessment

Q11_A_1 Time Percent of student Grade: Tests and Quizzes						
	Pre	Post	Change	Chi Square Value	DF	Significance
None (0%)	1.00%	1.00%	0.00%	48.54	4.00	p<.001
1% to 25%	20.00%	24.00%	4.00%			
25% to 50%	40.00%	40.00%	0.00%			
51% to 75%	27.00%	27.00%	0.00%			
More than 75%	11.00%	8.00%	-3.00%			
Total	100.00%	100.00%				

Q11_A_2 Percent of student grade: Papers and Written Reports						
	Pre	Post	Change	Chi Square Value	DF	Significance
None (0%)	17.00%	15.00%	-1.00%	14.61	4.00	0.01
1% to 25%	43.00%	44.00%	1.00%			
25% to 50%	29.00%	30.00%	1.00%			
51% to 75%	8.00%	8.00%	0.00%			
More than 75%	3.00%	2.00%	-1.00%			
Total	100.00%	100.00%				

Q11_A_3 Percent of student grade: Working independently						
	Pre	Post	Change	Chi Square Value	DF	Significance
None (0%)	11.00%	10.00%	0.00%	19.86	4.00	p<.001
1% to 25%	57.00%	58.00%	1.00%			
25% to 50%	22.00%	22.00%	1.00%			
51% to 75%	7.00%	7.00%	0.00%			
More than 75%	4.00%	2.00%	-1.00%			
Total	100.00%	100.00%				

Q11_A_4 Percent of student grade: Oral Reports and Presentations						
	Pre	Post	Change	Chi Square Value	DF	Significance
None (0%)	27.00%	22.00%	-5.00%	81.63	4.00	p<.001
1% to 25%	55.00%	56.00%	1.00%			
25% to 50%	13.00%	17.00%	4.00%			
51% to 75%	3.00%	4.00%	1.00%			
More than 75%	1.00%	1.00%	0.00%			
Total	100.00%	100.00%				

Q11_A_5 Percent of student grade: Projects						
	Pre	Post	Change	Chi Square Value	DF	Significance
None (0%)	13.00%	10.00%	-4.00%	62.68	4.00	p<.001
1% to 25%	53.00%	51.00%	-2.00%			
25% to 50%	24.00%	28.00%	4.00%			
51% to 75%	7.00%	9.00%	2.00%			
More than 75%	2.00%	2.00%	0.00%			
Total	100.00%	100.00%				

Q11_A_6 Percent of student grade: Class Participation						
	Pre	Post	Change	Chi Square Value	DF	Significance
None (0%)	20.00%	19.00%	-1.00%	10.83	4.00	0.03
1% to 25%	60.00%	59.00%	0.00%			
25% to 50%	12.00%	14.00%	1.00%			
51% to 75%	5.00%	6.00%	1.00%			
More than 75%	3.00%	3.00%	-1.00%			
Total	100.00%	100.00%				

Q11_A_7 Percent of student grade: Work produced by a group or team, rather than individually						
	Pre	Post	Change	Chi Square Value	DF	Significance
None (0%)	17.00%	13.00%	-4.00%	73.15	4.00	p<.001
1% to 25%	61.00%	59.00%	-1.00%			
25% to 50%	17.00%	21.00%	4.00%			
51% to 75%	4.00%	6.00%	1.00%			
More than 75%	2.00%	1.00%	0.00%			
Total	100.00%	100.00%				

Q12 Contribution of technologies in teaching your subject in 10 years						
	Pre	Post	Change	$\chi^2 =$	p-value =	
Minimal	1.00%	1.00%	0.00%	20.26	4.00	p<.001
Marginal	3.00%	3.00%	-1.00%			
Moderate	14.00%	12.00%	-2.00%			
Significant	43.00%	42.00%	-1.00%			
Very Significant	40.00%	43.00%	3.00%			
Total	100.00%	100.00%				

Q13 Given the tools and resources available to me, the learning experience I can offer students in my classroom is:						
	Pre	Post	Change	Chi Square Value	DF	Significance
Poor	2.00%	1.00%	-2.00%	337.09	4.00	p<.001
OK	10.00%	4.00%	-6.00%			
Good	25.00%	18.00%	-6.00%			
Very good	41.00%	48.00%	7.00%			
Excellent	22.00%	29.00%	7.00%			
Total	100.00%	100.00%				

Teacher Perceptions

Q14_A_1 Students learn a lot in my classroom.						
	Pre	Post	Change	Chi Square Value	DF	Significance
Strongly Disagree	0.00%	0.00%	0.00%	28.87	5.00	p<.001
Disagree	0.00%	0.00%	0.00%			
Somewhat Disagree	1.00%	1.00%	0.00%			
Somewhat Agree	11.00%	8.00%	-2.00%			
Agree	51.00%	51.00%	0.00%			
Strongly Agree	37.00%	40.00%	3.00%			
Total	100.00%	100.00%				

Q14_A_2 I can expect work of the highest quality from our students.						
	Pre	Post	Change	Chi Square Value	DF	Significance
Strongly Disagree	1.00%	1.00%	0.00%	39.55	5.00	p<.001
Disagree	2.00%	2.00%	-1.00%			
Somewhat Disagree	7.00%	6.00%	-1.00%			
Somewhat Agree	31.00%	27.00%	-4.00%			
Agree	38.00%	41.00%	3.00%			
Strongly Agree	21.00%	23.00%	2.00%			
Total	100.00%	100.00%				

Q14_A_3 I feel better prepared to teach than I did last year.						
	Pre	Post	Change	Chi Square Value	DF	Significance
Strongly Disagree	1.00%	1.00%	0.00%	14.58	5.00	0.01
Disagree	4.00%	3.00%	0.00%			
Somewhat Disagree	5.00%	4.00%	-1.00%			
Somewhat Agree	19.00%	18.00%	-1.00%			
Agree	42.00%	43.00%	1.00%			
Strongly Agree	29.00%	30.00%	1.00%			
Total	100.00%	100.00%				

Q14_A_4 I am working HARDER than I have in past years.						
	Pre	Post	Change	Chi Square Value	DF	Significance
Strongly Disagree	1.00%	0.00%	0.00%	17.33	5.00	p<.001
Disagree	3.00%	3.00%	-1.00%			
Somewhat Disagree	8.00%	6.00%	-1.00%			
Somewhat Agree	20.00%	20.00%	0.00%			
Agree	34.00%	35.00%	1.00%			
Strongly Agree	35.00%	36.00%	1.00%			
Total	100.00%	100.00%				

Q14_A_5 I am working LONGER than I have in past years.						
	Pre	Post	Change	Chi Square Value	DF	Significance
Strongly Disagree	1.00%	1.00%	0.00%	32.13	5.00	p<.001
Disagree	5.00%	4.00%	-2.00%			
Somewhat Disagree	12.00%	11.00%	-2.00%			
Somewhat Agree	21.00%	22.00%	0.00%			
Agree	28.00%	30.00%	2.00%			
Strongly Agree	32.00%	33.00%	1.00%			
Total	100.00%	100.00%				

Q14_A_6 I would recommend teaching to a friend considering entering the profession						
	Pre	Post	Change	Chi Square Value	DF	Significance
Strongly Disagree	5.00%	5.00%	0.00%	9.78	5.00	.088
Disagree	7.00%	7.00%	0.00%			
Somewhat Disagree	10.00%	10.00%	0.00%			
Somewhat Agree	26.00%	27.00%	1.00%			
Agree	32.00%	32.00%	0.00%			
Strongly Agree	20.00%	18.00%	-2.00%			
Total	100.00%	100.00%				

Q14_A_7 I have the technology skills I need to teach my subject using the best methods available.						
	Pre	Post	Change	Chi Square Value	DF	Significance
Strongly Disagree	3.00%	2.00%	-2.00%	270.46	5.00	p<.001
Disagree	9.00%	4.00%	-4.00%			
Somewhat Disagree	14.00%	9.00%	-4.00%			
Somewhat Agree	31.00%	30.00%	0.00%			
Agree	29.00%	38.00%	9.00%			
Strongly Agree	14.00%	17.00%	3.00%			
Total	100.00%	100.00%				

Q14_A_8 Students in my classroom are generally well behaved and do what they are asked to do						
	Pre	Post	Change	Chi Square Value	DF	Significance
Strongly Disagree	1.00%	1.00%	0.00%	4.58	5.00	0.47
Disagree	2.00%	2.00%	0.00%			
Somewhat Disagree	4.00%	4.00%	0.00%			
Somewhat Agree	16.00%	16.00%	0.00%			
Agree	43.00%	44.00%	1.00%			
Strongly Agree	33.00%	32.00%	-1.00%			
Total	100.00%	100.00%				

Q14_A_9 I feel comfortable and confident while teaching						
	Pre	Post	Change	Chi Square Value	DF	Significance
Strongly Disagree	0.00%	0.00%	0.00%	7.01	5.00	0.20
Disagree	0.00%	0.00%	0.00%			
Somewhat Disagree	1.00%	1.00%	0.00%			
Somewhat Agree	5.00%	5.00%	0.00%			
Agree	35.00%	37.00%	1.00%			
Strongly Agree	58.00%	57.00%	-1.00%			
Total	100.00%	100.00%				

Value of Teaching Support

Q15_A_1 Value of: Teaching me to operate computers, networks, or software programs						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	40.00%	12.00%	-27.00%	1150.19	4.00	p<.001
Not Valuable	3.00%	5.00%	2.00%			
Little value	8.00%	13.00%	5.00%			
Valuable	31.00%	44.00%	13.00%			
Very Valuable	18.00%	26.00%	8.00%			
Total	100.00%	100.00%				

Q15_A_2 Value of: Suggesting ways to incorporate technology to teach the content in my classes						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	37.00%	9.00%	-27.00%	1258.99	4.00	p<.001
Not Valuable	3.00%	4.00%	2.00%			
Little value	9.00%	15.00%	5.00%			
Valuable	32.00%	44.00%	12.00%			
Very Valuable	19.00%	27.00%	8.00%			
Total	100.00%	100.00%				

Q15_A_3 Value of: Teaching demonstration lessons in my classroom						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	62.00%	45.00%	-17.00%	368.59	4.00	p<.001
Not Valuable	3.00%	6.00%	3.00%			
Little value	7.00%	11.00%	4.00%			
Valuable	18.00%	24.00%	6.00%			
Very Valuable	10.00%	14.00%	4.00%			
Total	100.00%	100.00%				

Q15_A_4 Value of: Solving technical problems						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	46.00%	19.00%	-27.00%	998.72	4.00	p<.001
Not Valuable	3.00%	5.00%	2.00%			
Little value	7.00%	11.00%	4.00%			
Valuable	26.00%	37.00%	11.00%			
Very Valuable	18.00%	28.00%	10.00%			
Total	100.00%	100.00%				

Q15_A_5 Value of: Helping me think about how to assess technology-rich lessons						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	49.00%	26.00%	-24.00%	745.40	4.00	p<.001
Not Valuable	4.00%	7.00%	3.00%			
Little value	9.00%	16.00%	7.00%			
Valuable	26.00%	35.00%	9.00%			
Very Valuable	13.00%	17.00%	4.00%			
Total	100.00%	100.00%				

Q15_A_6 Value of: Observing my instruction and providing feedback						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	60.00%	42.00%	-18.00%	424.24	4.00	p<.001
Not Valuable	3.00%	7.00%	4.00%			
Little value	8.00%	13.00%	5.00%			
Valuable	19.00%	26.00%	7.00%			
Very Valuable	9.00%	11.00%	2.00%			
Total	100.00%	100.00%				

Q15_A_7 Value of: Advising me on how to use technology through a differentiated instruction approach to meet individual students needs.						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	52.00%	28.00%	-24.00%	734.35	4.00	p<.001
Not Valuable	4.00%	7.00%	3.00%			
Little value	8.00%	14.00%	6.00%			
Valuable	25.00%	36.00%	11.00%			
Very Valuable	12.00%	16.00%	3.00%			
Total	100.00%	100.00%				

Value of Teaching Support

Q15_A_8 Value of: Leading CFF-related professional development workshops						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	39.00%	13.00%	-26.00%	1091.99	4.00	p<.001
Not Valuable	4.00%	7.00%	3.00%			
Little value	10.00%	14.00%	4.00%			
Valuable	30.00%	39.00%	9.00%			
Very Valuable	18.00%	28.00%	10.00%			
Total	100.00%	100.00%				

Q15_A_9 Value of: Overall, how important is the CFF Coach to the success of your schools CFF effort?						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	29.00%	4.00%	-24.00%	1333.86	4.00	p<.001
Not Valuable	4.00%	7.00%	4.00%			
Little value	7.00%	13.00%	6.00%			
Valuable	31.00%	40.00%	9.00%			
Very Valuable	30.00%	36.00%	6.00%			
Total	100.00%	100.00%				

Q16_A_1 Value of Principal's activity: Suggesting ways to incorporate technology to teach the content in my classes						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	53.00%	48.00%	-5.00%	86.59	4.00	p<.001
Not Valuable	6.00%	9.00%	4.00%			
Little value	11.00%	14.00%	2.00%			
Valuable	24.00%	24.00%	0.00%			
Very Valuable	6.00%	5.00%	-1.00%			
Total	100.00%	100.00%				

Q16_A_2 Value of Principal's activity: Teaching demonstration lessons in my classroom						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	77.00%	73.00%	-5.00%	85.19	4.00	p<.001
Not Valuable	5.00%	9.00%	3.00%			
Little value	6.00%	8.00%	2.00%			
Valuable	8.00%	8.00%	0.00%			
Very Valuable	3.00%	2.00%	-1.00%			
Total	100.00%	100.00%				

Q16_A_3 Value of Principal's activity: Helping me think about how to assess technology-rich lessons						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	62.00%	56.00%	-6.00%	84.44	4.00	p<.001
Not Valuable	5.00%	9.00%	3.00%			
Little value	10.00%	11.00%	2.00%			
Valuable	18.00%	19.00%	2.00%			
Very Valuable	5.00%	4.00%	-1.00%			
Total	100.00%	100.00%				

Q16_A_4 Value of Principal's activity: Observing my instruction and providing feedback						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	33.00%	30.00%	-3.00%	63.39	4.00	p<.001
Not Valuable	5.00%	7.00%	3.00%			
Little value	12.00%	13.00%	1.00%			
Valuable	36.00%	37.00%	1.00%			
Very Valuable	14.00%	12.00%	-2.00%			
Total	100.00%	100.00%				

Q16_A_5 Value of Principal's activity: Advising me on how to use technology through a differentiated instruction approach to meet individual students						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	62.00%	56.00%	-6.00%	94.30	4.00	p<.001
Not Valuable	6.00%	9.00%	3.00%			
Little value	9.00%	11.00%	2.00%			
Valuable	18.00%	19.00%	2.00%			
Very Valuable	5.00%	4.00%	-1.00%			
Total	100.00%	100.00%				

Q16_A_6 Value of Principal activity: Overall, how important has your building principal been to the success of your schools CFF effort?						
	Pre	Post	Change	Chi Square Value	DF	Significance
N/A	34.00%	23.00%	-12.00%	330.36	4.00	p<.001
Not Valuable	9.00%	14.00%	6.00%			
Little value	13.00%	19.00%	6.00%			
Valuable	30.00%	33.00%	3.00%			
Very Valuable	14.00%	11.00%	-3.00%			
Total	100.00%	100.00%				

Degree of Technical Issues

Q17_A_1 Degree of problem: Computer failures						
	Pre	Post	Change	Chi Square Value	DF	Significance
No Problem	21.00%	17.00%	-4.00%	61.52	4.00	p<.001
Small Problem	35.00%	41.00%	6.00%			
Problem	23.00%	22.00%	0.00%			
Significant Problem	15.00%	13.00%	-2.00%			
Huge Problem	7.00%	6.00%	-1.00%			
Total	100.00%	100.00%				

Q17_A_2 Degree of problem: Network Downtime						
	Pre	Post	Change	Chi Square Value	DF	Significance
No Problem	22.00%	19.00%	-3.00%	20.89	4.00	p<.001
Small Problem	40.00%	42.00%	2.00%			
Problem	20.00%	20.00%	0.00%			
Significant Problem	13.00%	12.00%	0.00%			
Huge Problem	6.00%	7.00%	1.00%			
Total	100.00%	100.00%				

Q17_A_3 Degree of problem: Battery Issues						
	Pre	Post	Change	Chi Square Value	DF	Significance
No Problem	56.00%	48.00%	-7.00%	129.79	4.00	p<.001
Small Problem	23.00%	31.00%	8.00%			
Problem	11.00%	12.00%	1.00%			
Significant Problem	7.00%	6.00%	-1.00%			
Huge Problem	4.00%	3.00%	-1.00%			
Total	100.00%	100.00%				

Q17_A_4 Degree of problem: Smart board problems						
	Pre	Post	Change	Chi Square Value	DF	Significance
No Problem	61.00%	40.00%	-22.00%	620.06	4.00	p<.001
Small Problem	19.00%	36.00%	17.00%			
Problem	10.00%	14.00%	4.00%			
Significant Problem	5.00%	7.00%	1.00%			
Huge Problem	5.00%	4.00%	0.00%			
Total	100.00%	100.00%				

Q17_A_5 Degree of problem: Projector Problems						
	Pre	Post	Change	Chi Square Value	DF	Significance
No Problem	55.00%	61.00%	5.00%	113.03	4.00	p<.001
Small Problem	25.00%	26.00%	1.00%			
Problem	10.00%	8.00%	-2.00%			
Significant Problem	6.00%	3.00%	-2.00%			
Huge Problem	4.00%	2.00%	-2.00%			
Total	100.00%	100.00%				

Q17_A_6 Degree of problem: Sound Problems						
	Pre	Post	Change	Chi Square Value	DF	Significance
No Problem	59.00%	61.00%	3.00%	48.37	4.00	p<.001
Small Problem	22.00%	24.00%	2.00%			
Problem	11.00%	9.00%	-2.00%			
Significant Problem	5.00%	3.00%	-2.00%			
Huge Problem	3.00%	2.00%	-1.00%			
Total	100.00%	100.00%				

Q17_A_7 Degree of problem: Printing Problems.						
	Pre	Post	Change	Chi Square Value	DF	Significance
No Problem	36.00%	39.00%	3.00%	15.38	4.00	p<.001
Small Problem	30.00%	30.00%	1.00%			
Problem	17.00%	15.00%	-2.00%			
Significant Problem	10.00%	9.00%	-1.00%			
Huge Problem	7.00%	7.00%	0.00%			
Total	100.00%	100.00%				

Q17_A_8 Degree of problem: Theft						
	Pre	Post	Change	Chi Square Value	DF	Significance
No Problem	81.00%	88.00%	7.00%	127.16	4.00	p<.001
Small Problem	10.00%	8.00%	-2.00%			
Problem	4.00%	2.00%	-2.00%			
Significant Problem	2.00%	1.00%	-1.00%			
Huge Problem	2.00%	1.00%	-1.00%			
Total	100.00%	100.00%				

Q17_A_9 Degree of problem: Vandalism						
	Pre	Post	Change	Chi Square Value	DF	Significance
No Problem	79.00%	83.00%	4.00%	102.51	4.00	p<.001
Small Problem	12.00%	13.00%	1.00%			
Problem	5.00%	3.00%	-2.00%			
Significant Problem	2.00%	1.00%	-1.00%			
Huge Problem	2.00%	1.00%	-1.00%			
Total	100.00%	100.00%				

Q17_A_10 Degree of problem: Plagiarism						
	Pre	Post	Change	Chi Square Value	DF	Significance
No Problem	51.00%	55.00%	4.00%	52.19	4.00	p<.001
Small Problem	21.00%	23.00%	1.00%			
Problem	15.00%	13.00%	-2.00%			
Significant Problem	9.00%	6.00%	-2.00%			
Huge Problem	4.00%	3.00%	-1.00%			
Total	100.00%	100.00%				

Q17_A_11 Degree of problem: Lack of Technical Support						
	Pre	Post	Change	Chi Square Value	DF	Significance
No Problem	47.00%	52.00%	5.00%	79.16	4.00	p<.001
Small Problem	25.00%	26.00%	1.00%			
Problem	15.00%	12.00%	-4.00%			
Significant Problem	7.00%	6.00%	-2.00%			
Huge Problem	6.00%	4.00%	-2.00%			
Total	100.00%	100.00%				

Q17_A_12 Degree of problem: Insufficient Professional Development						
	Pre	Post	Change	Chi Square Value	DF	Significance
No Problem	39.00%	35.00%	-4.00%	33.55	4.00	p<.001
Small Problem	22.00%	26.00%	4.00%			
Problem	18.00%	18.00%	0.00%			
Significant Problem	12.00%	11.00%	0.00%			
Huge Problem	9.00%	10.00%	1.00%			
Total	100.00%	100.00%				